

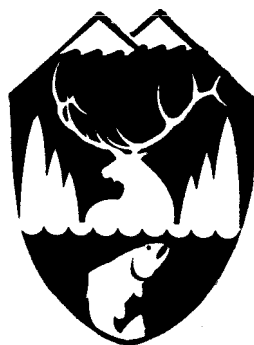
IDAHO

DEPARTMENT OF FISH AND GAME

Jerry M. Conley, Director

MULLAN HATCHERY

Annual Report



1 October 1982 to 30 September 1983

by

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MULLAN HATCHERY ABSTRACT

Mullan Hatchery produced 94,286 cutthroat fingerling and 3,976,187 kokanee fry and acted as a redistribution station for 5,385 cutthroat fry from Sandpoint Hatchery, 53,654 catchable rainbow from Hayspur Hatchery and 136,000 brown trout fingerling from Ashton.

The hatchery crew provided support for the kokanee spawning activities at Granite Creek on Pend Oreille Lake and incubated 5,142,976 of these eggs.

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OBJECTIVES

The objectives of the Mullan Hatchery were to:

1. Rear kokanee for release in Pend Oreille Lake.
2. Provide support for the kokanee spawning activities at Granite Creek on Pend Oreille Lake.
3. Rear and release two-year-old cutthroat trout in Region 1.
4. Receive catchable rainbow trout from Hayspur Hatchery and redistribute them in the southern part of Region 1.

INTRODUCTION

Mullan Hatchery is located four miles east of Mullan, Idaho, and consists of:

3 raceways	- 4' x 65' x 2'
2 raceways	- 6' x 65' x 1'8"
1 raceway	- 12' x 65' x 1'8"
2 raceways	- 6' x 65' x 3'
1 pond	- 30' x 168' x 3'
1 pond	- 25' x 132' x 3'
1 pond	- 35' x 78' x 3'
19 vats	- 13'6" x 2'4" x 1'8"

The hatchery receives water from the South Fork of the Coeur d'Alene River, the Little North Fork of the Coeur d'Alene River and the domestic water and the water for the incubators comes from a small unnamed creek to the south of the hatchery.

The hatchery requires three to four cfs from all three sources to operate. During the months of August, September and October the water supply is low and is critical at times. The water temperature ranges from 33°F in January to 58°F in August.

The Mullan Hatchery buildings and grounds are owned by the Shoshone County Sportsman Association. A mill levy is raised by the Shoshone County tax rolls to pay for the maintenance of the buildings and grounds. The Idaho Department of Fish and Game staffs the permanent personnel and provides the trucks and fish production costs for the station.

FISH PRODUCTION

Kokanee, cutthroat and Kootenai River rainbow were produced during the 1982-1983 fish year (Table 1). The kokanee (KL) were received as green eggs from Granite Creek on Pend Oreille Lake, the Kootenai River rainbow (R3) were received as eyed eggs from the University of Idaho Hatchery at Hayden Creek, and the cutthroat (C2) were received from the Hayden Creek trap as green eggs in 1981.

Table 1. Fish Production October 1, 1982 - September 30, 1983.

Species	Lbs on hand first of year	Lbs on hand end of year	Number released	Lbs released	Lbs gained
Kokanee	0	0	3,967,187	1,474	1,474
Cutthroat	1,094	0	99,669	1,766	672
Kootenai River Rainbow	0	28	0	0	28
Total pounds produced					2,172

The kokanee that were produced came from the late spawning kokanee (KL) in Pend Oreille Lake that were trapped at Granite Creek. The hatchery received 3,973,290 green eggs from Granite Creek and 1,169,686 eyed eggs from Sandpoint Hatchery and Clark Fork Hatchery. A total of 5,142,976 eggs were incubated and 3,967,187 small fry were released between July 27, 1983, and August 5, 1983. The first lot of eggs was taken November 8, 1982, and eyed-up 98 days later on February 14, 1983. This lot of eggs spent six months and 22 days in the incubators.

FISH RELEASES

Mullan Hatchery released a total of 4,265,716 fish; this included 53,654 catchable rainbow trout, 99,671 cutthroat, 3,976,187 kokanee fry, 136,000 brown trout and 213 smallmouth bass (Table 2). The hatchery is in part a redistribution station for catchable rainbow trout from Hayspur Hatchery. This year three tanker loads were received and released in the southern part of Region 1.

The smallmouth bass were not brought onto the hatchery; they were captured by electro-fishing in the Lower Granite Dam pool in Washington and hauled directly to Hayden Lake to be released.

Table 2. Fish released October 1, 1982 - September 30, 1983

Name of Water	Cat. No.	Pounds	No.	Origin	Size
<u>Rainbow</u>					
Coeur d'Alene River	03-22	3,400	13,620	Hayspur	Catch.
N. Fk. Coeur d'Alene R.	03-22-08	1,375	5,570	"	"
S. Fk. Coeur d'Alene R.	03-22-06	952	3,300	"	"
St. Joe River	03-23	1,150	4,280	"	"
St. Maries River	03-23-01	880	3,392	"	"
N. Fk. St. Joe River	03-23-31	800	2,960	"	"
Fernan Lake	03---016	1,250	5,000	"	"
Lower Glidden Lake	03---0123	250	1,000	"	"
Elsie Lake	03---0119	375	1,500	"	"
Dismal Lake	03---0138	375	1,500	"	"
Robinson Lake	01---0151	600	2,640	"	"
Smith Lake	01---0142	600	2,640	"	"
Day Rock Pond	03-22-06-0013	339	1,320	"	"
Day Pond	03---0120	239	1,000	"	"
Gold Creek Pond	03-22-0016	365	1,556	"	"
Eagle Pond	03-22-20	<u>590</u>	<u>2,376</u>	"	"
Total rainbow		13,540	53,654		
<u>Cutthroat</u>					
Hayden Lake	03---0104	556	42,256	Mullan	76/lb
Gold Lake	03---0125	1.4	1,005	Sandpoint	718/lb
Crystal Lake	03---0160	6.1	4,380	Sandpoint	718/lb
Mirror Lake	02---0194	235	10,105	Mullan	43/lb
Tango Creek	02-03-11	220	9,460	Mullan	43/lb
Granite Creek	02-03-10	<u>755</u>	<u>32,465</u>	Mullan	43/lb
Total cutthroat		1,773.5	99,671		
<u>Kokanee</u>					
Pend Oreille Lake	02---0195	20	12,520	Mullan	626/lb
Clark Fork River	02-30		487	Mullan	3,062/lb
Granite Creek	02-21	<u>967</u>	<u>2,473,798</u>		
Total kokanee		1,474	3,976,187		
<u>Brown trout</u>					
Hauser Lake	03---0101	60	10,200	Ashton	170/lb
Twin Lakes	03---0102	60	10,200	Ashton	170/lb
Kelso Lake	02---0149	25	4,250	Ashton	170/lb
Mirror Lake	02---0194	30	5,100	Ashton	170/lb
Spokane River	03	<u>625</u>	<u>106,250</u>	Ashton	170/lb
Total brown trout	800		136,000		

Table 2 (continued)

Name of water	Cat. No.	Pounds	No.	Origin	size
<u>Smallmouth Bass</u>					
Hayden Lake	03---0104	<u>80</u>	213	Snake River	2.66 lb
				In Wash.	
	Total smallmouth bass	80	213		

FISH HEALTH

There were no health problems this year. The only treatments were to disinfect green eggs with Wescodine, treat incubating eggs with malachite green to keep fungus from forming and terramycin was used on 1,000,000 kokanee fry to mark them for future identification.

SPAWNTAKING OPERATIONS

The Mullan Hatchery crew spent nine days providing support to the spawntaking activities at the fish trap on Granite Creek on Pend Oreille Lake and brought back 3,973,290 late spawning kokanee eggs to be incubated.

FISH FEED UTILIZED

The kokanee and cutthroat were fed Oregon Moist Pellets and Bio Diet starter mash. The fish were fed 2,720 pounds of feed that cost \$1,133.83 to produce 2,174 pounds of fish for a conversion factor of 1.25. The cost for feed to produce one pound of fish is \$0.521.

HATCHERY IMPROVEMENTS

A visitor registration box and display case was built so that a better estimate of the number of visitors at the station can be made.

The rest of the improvements are in the nature of maintenance and include:

1. Drained the South Fork of the Coeur d'Alene reservoir and removed silt and debris and installed new dam boards.

2. Drained the domestic reservoir and flushed Mt. St. Helens ash and silt from it.
3. Repaired incubator trays.
4. Repaired the cement in the head race of the the small raceways and put in new dam board guides.
5. Removed some trees that were hanging over the storage building.

MISCELLANEOUS ACTIVITIES

The hatchery and grounds are owned by the Shoshone County Sportsman Association. Their meetings were attended in order to keep them up-to-date on all of the activities at the hatchery.

ACKNOWLEDGEMENTS

Hatchery staffing included:

Ivan Talbott	Hatchery Superintendent I
Mary Alexander	Temporary Laborer
Terry Zufelt	CETA Employee
David Darrow	CETA Employee